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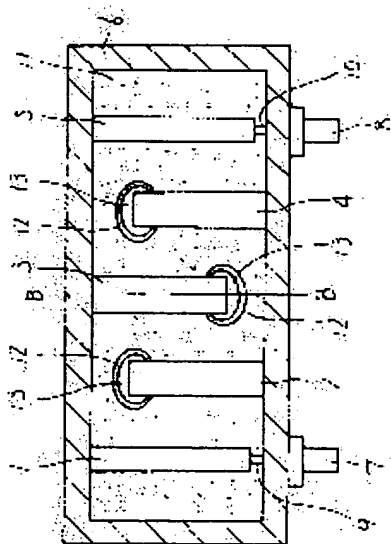
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(71)Applicant : MITSUBISHI ELECTRIC CORP

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(72)Inventor : ISHIDA OSAMI
TAKEDA FUMIO
KANITANI SHOJIRO
ISODA YOJI

(54) INTERDIGITAL WAVE FILTER



(57)Abstract:

PURPOSE: To eliminate the influence of fluctuations of temperature by providing a cavity in the 1st dielectric at one end of an internal conductor which is not connected to an external conductor and by providing the 2nd dielectric, whose temperature coefficient is reciprocal to the dielectric constant of the 1st dielectric, in the cavity.

CONSTITUTION: Cavities 12 are provided in the 1st dielectric 11 at one-side terminals of internal conductors 2, 4 which are not connected to external conductor 6. The 2nd dielectrics 13 are provided in cavities 12. The dielectric constant of the 2nd dielectric 13 is greater than that of the 1st dielectric 11 and has the reciprocal temperature coefficient. Therefore, the dielectric constants of both dielectrics 11 and 13 vary reciprocally with temperature, so that even if the temperature fluctuates, their resonance conditions will be satisfied.

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